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APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
09/481,163	01/12/2000	JOHN C. PLATT	14984.10.1	5267
22913 7	590 04/28/2003			
WORKMAN NYDEGGER & SEELEY			EXAMINER	
1000 EAGLE GATE TOWER 60 EAST SOUTH TEMPLE			ALAVI, AMIR	
SALT LAKE (	SALT LAKE CITY, UT 84111		ART UNIT	PAPER NUMBER
			2621	10
			DATE MAILED: 04/28/2003	10

Please find below and/or attached an Office communication concerning this application or proceeding.

lacksquare						
10.	Application No.	Applicant(s)				
	09/481,163	PLATT ET AL.				
Office Action Summary	Examiner	Art Unit				
	Amir Alavi	2621				
The MAILING DATE of this communication appears on the cover sheet with the correspondence address Period for Reply						
A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) FROM THE MAILING DATE OF THIS COMMUNICATION.  - Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.  - If the period for reply specified above is less than thirty (30) days, a reply within the statutory minimum of thirty (30) days will be considered timely.  - If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.  - Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133).  - Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).  Status						
1)⊠ Responsive to communication(s) filed on <u>12 January 2000</u> .						
2a) This action is <b>FINAL</b> . 2b) ⊠ Thi	s action is non-final.					
3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is						
closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213. <b>Disposition of Claims</b>						
4)⊠ Claim(s) <u>1-37</u> is/are pending in the application.						
4a) Of the above claim(s) is/are withdrawn from consideration.						
5)⊠ Claim(s) <u>14-32 and 34-36</u> is/are allowed.						
6) Claim(s) <u>1,10-12,33 and 37</u> is/are rejected.						
7) Claim(s) 2-9 and 13 is/are objected to.	7)⊠ Claim(s) <u>2-9 and 13</u> is/are objected to.					
8) Claim(s) are subject to restriction and/or election requirement.						
Application Papers						
9) The specification is objected to by the Examiner.						
10)⊠ The drawing(s) filed on <u>30 July 1999</u> is/are: a)⊠ accepted or b)⊡ objected to by the Examiner.						
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).						
11)☐ The proposed drawing correction filed on is: a)☐ approved b)☐ disapproved by the Examiner.						
If approved, corrected drawings are required in reply to this Office action.						
12) The oath or declaration is objected to by the Examiner.						
Priority under 35 U.S.C. §§ 119 and 120						
13) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).						
a) All b) Some * c) None of:						
1. Certified copies of the priority documents have been received.						
2. Certified copies of the priority documents have been received in Application No						
<ul> <li>3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).</li> <li>* See the attached detailed Office action for a list of the certified copies not received.</li> </ul>						
14) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. § 119(e) (to a provisional application).						
a) The translation of the foreign language provisional application has been received.						
15) Acknowledgment is made of a claim for domestic priority under 35 U.S.C. §§ 120 and/or 121.  Attachment(s)						
1) Notice of References Cited (PTO-892)	4) [] Intended	v Summary (PTO-413) Paper No(s)				
<ul> <li>Notice of References Cited (PTO-892)</li> <li>Notice of Draftsperson's Patent Drawing Review (PTO-948)</li> <li>Information Disclosure Statement(s) (PTO-1449) Paper No(s) 5.</li> </ul>	5) Notice o	f Informal Patent Application (PTO-152)				

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## **DETAILED ACTION**

## **Specification**

Claims 33 and 37 are objected to because of the following informalities: Regarding claim 33, wherein, "comprises a only one", this phrase is incoherent. As for claim 37, it's incorrect for a claim to be dependent on itself. Appropriate correction is required.

# Claim Rejections - 35 USC § 102

The following is a quotation of the appropriate paragraphs of 35
U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless -

<sup>(</sup>b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

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Claims 1, 10-12 are rejected under 35 U.S.C. 102(b) as being anticipated by Hooks, Jr. (US 4,463,380).

Regarding claim 1, Hooks, Jr., discloses: Passing a signal in which the image data is encoded through a low-pass filter, the signal having a plurality of channels each representing a different color component of the image (Please note figure 14 in correlation to column 15, lines 55-67. As indicated the low pass filter is provided, for each of the three channels, which bandwidth limits the signal to below the Nyquist frequency corresponding to the maximum pixel rate); and based on the filtered signal, generating a data structure in which data representing spatially different regions of the image data are mapped to individual pixel sub-components of a particular pixel rather than being mapped to the entire pixel. (Please note, column 18, lines 20-29. In this regard the various weights of RGB signals are indicative of spatially different regions).

Regarding claim 10, Hooks, Jr., discloses, wherein rotating the signal in color space, such that the color of the image, which is originally expressed in the signal in terms of R, G, and B, is subsequently expressed in terms of Y, U, and V. (Please note, column 54, lines 60-67 and column 55, lines 1-3).

Regarding claim 11, Hooks, Jr., discloses, generating a separate luminous value for each of the pixel sub-components based on the data representing the spatially different region of image data mapped thereto. (Please note, column 18, lines 20-29).

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Regarding claim 12, Hooks, Jr., discloses, displaying the image on the display device using the separate luminous intensity values, resulting in each of the pixel sub-components of the pixels, rather than the entire pixels, representing different portions of the image. (Please note, figure 28).

### **Allowable Subject Matter**

- Claims 2-9 and 13 are objected to as being dependent upon a rejected base claim, but would be allowable if rewritten in independent form including all of the limitations of the base claim and any intervening claims.
- > Claims 14-32 and 34-36 are allowed.
- Claims 33 and 37 would be allowable if rewritten to overcome the objected informalities.

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# Other prior art cited

> The prior art made of record and not relied upon is considered pertinent to applicant's disclosure.

Kajiya et al. (US 5,977,977) is pertinent as teaching method and system for multi-pass rendering.

Hooks, Jr. (US 4,513,374) is pertinent as teaching memory system.

Chauvin et al. (US 6,008,820) is pertinent as teaching a processor for controlling the displaying the display of rendered image layers and method for controlling same.

Bahng et al. (US 6,285,717 B1) is pertinent as teaching digital video encoder for digital video system.

Myhrvold et al. (US 5,867,166) is pertinent as teaching method and system for generating images using gsprites.

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### **Contact Information**

Any inquiry concerning this communication or earlier communications from the Examiner should be directed to Amir Alavi whose telephone number is (703) 306-5913.

➤ The Examiner can normally be reached on Monday through Thursday from 8:00 a.m. to 6:30 p.m. If attempts to reach the Examiner by telephone are unsuccessful, the Examiner's supervisor, Leo Boudreau, can be reached at (703) 305-4706.

Any response to this action should be mailed to:

**Assistant Commissioner for Patents** 

Washington, D.C. 20231

#### Or faxed to:

(703) 872-9314, ("draft" or "informal" communications should be clearly labeled to expedite delivery to Examiner)

Hand delivered responses should be brought to Crystal Park II, 2121 Crystal Drive, Arlington, VA., Sixth Floor (Receptionist). Any inquiry of a general nature or relating to the status of this application should be directed to the T.C. Customer Service Office whose telephone number is (703) 306-0377.

AA April 22, 2003 ANDREW W. JOHNS PRIMARY EXAMINER